

Planning Work Execution: 90 Day Rolling Schedule, Plan of the Week, and Plan of the Day

Scott Wallace

December 5, 2000





Planning Work Execution: 90 Day Rolling Schedule, Plan of the Week, Plan of the Day

- ***Performing Work Within Controls***



ISM Core Functions

1. Define the Scope of Work
2. Analyze the Hazards
3. Develop and Implement Hazard Controls
4. Perform Work within Controls
5. Provide Feedback and Continuous Improvement



Planning Work Execution: 90 Day Rolling Schedule, Plan of the Week, Plan of the Day

- ***Balance Priorities***



ISM 8 Guiding Principles

1. Line Management Responsible for Safety
2. Clear Roles and Responsibilities
3. Competence Commensurate with Responsibilities
4. **Balanced Priorities**
5. Identification of Safety Standards / Requirements
6. Hazard Controls Tailored to Work Being Performed
7. Operations Authorization
8. Employee Involvement



Planning Work Execution: 90 Day Rolling Schedule, Plan of the Week, Plan of the Day

- ***Operations Authorization***



ISM 8 Guiding Principles

1. Line Management Responsible for Safety
2. Clear Roles and Responsibilities
3. Competence Commensurate with Responsibilities
4. Balanced Priorities
5. Identification of Safety Standards / Requirements
6. Hazard Controls Tailored to Work Being Performed
7. **Operations Authorization**
8. Employee Involvement



Scope of Work

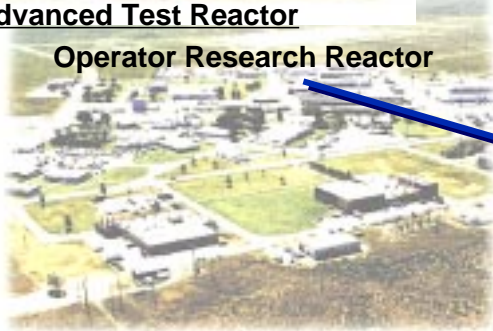
Spent Nuclear Fuel

- Receive and Process Spent Fuel to Long-Term Storage



Advanced Test Reactor

- Operator Research Reactor



Waste Management

- Prepare, Store, and Transport Various Legacy Wastes

Research and Development

- Manage and Grow a National Environmental and Engineering Lab

Specific Manufacturing Capability

- Produce Armor Plating for Army



Infrastructure

- Manage Infrastructure Associated with 890 square mile INEEL Site (Facilities / Transportation, etc.)



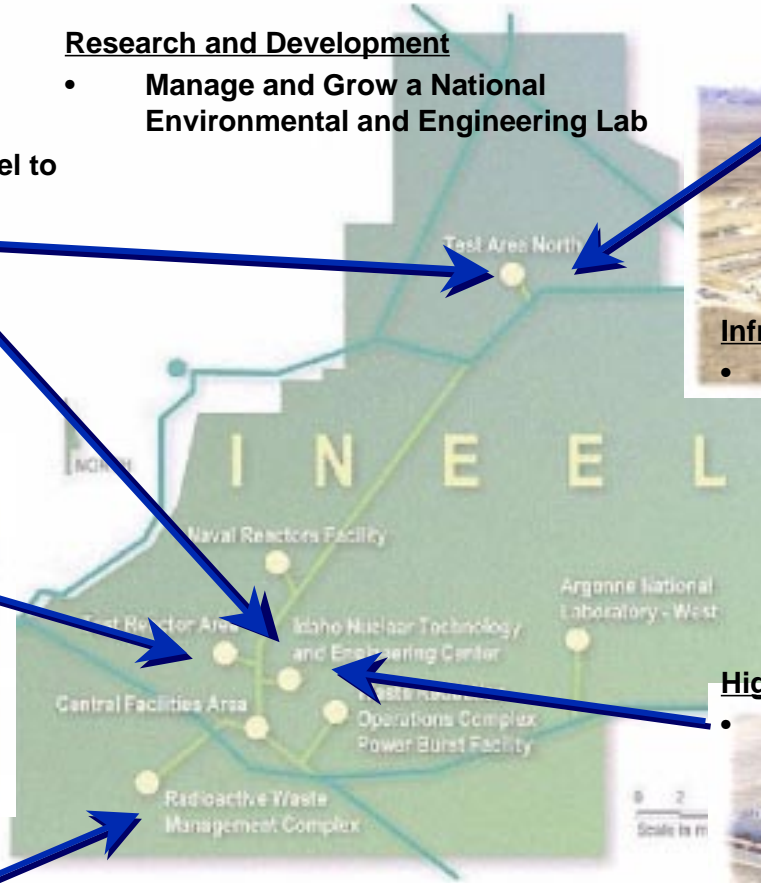
High Level Waste

- Manage Disposal of Legacy HLW



Environmental Restoration

- Soil / Groundwater Remediation
- D&D of Facilities

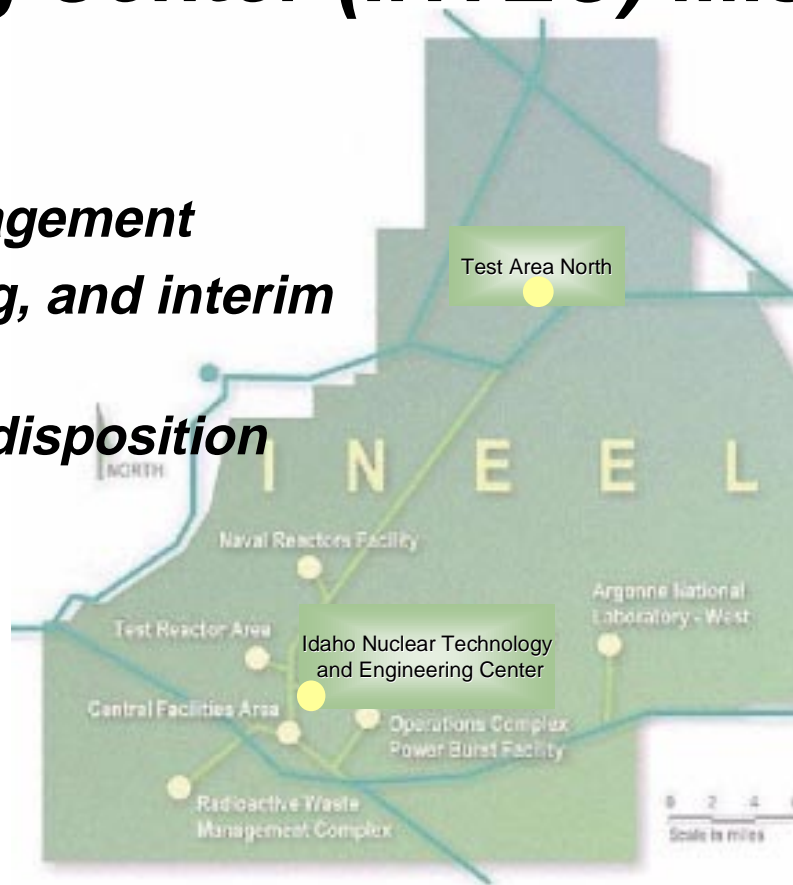


INEEL



I. Primary Idaho Nuclear Technology and Engineering Center (INTEC) Missions

- ***Spent Nuclear Fuel Management***
 - ***Safe receipt, handling, and interim storage***
 - ***Preparation for final disposition***

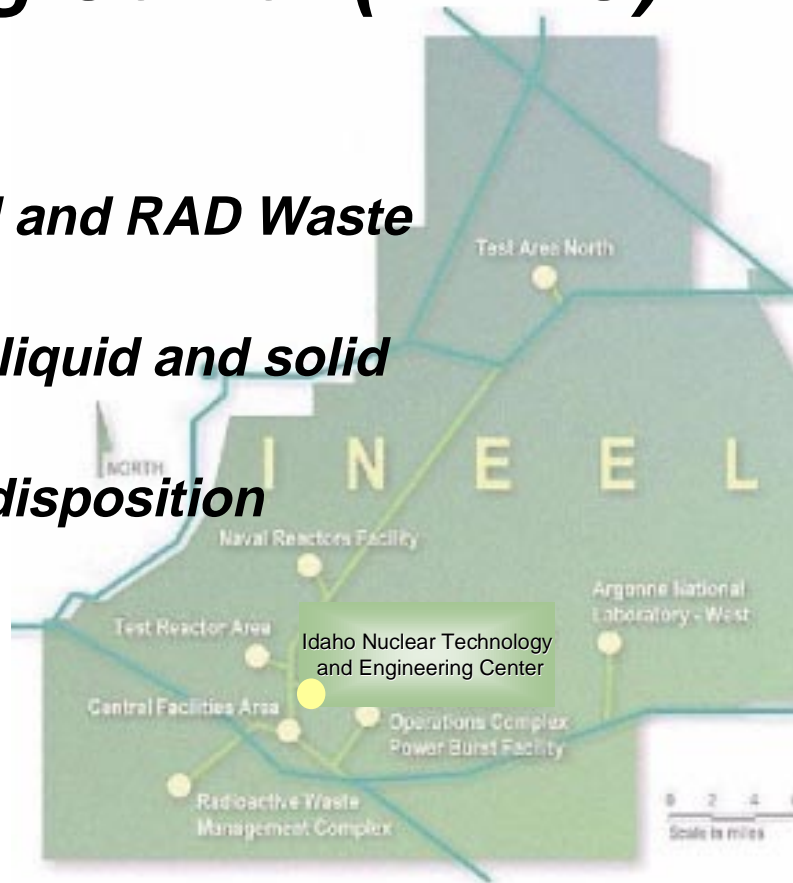


INEEL



I. Primary Idaho Nuclear Technology and Engineering Center (INTEC) Missions

- ***High Level Waste, Liquid and RAD Waste Management***
 - ***Safe management of liquid and solid waste***
 - ***Preparation for final disposition***

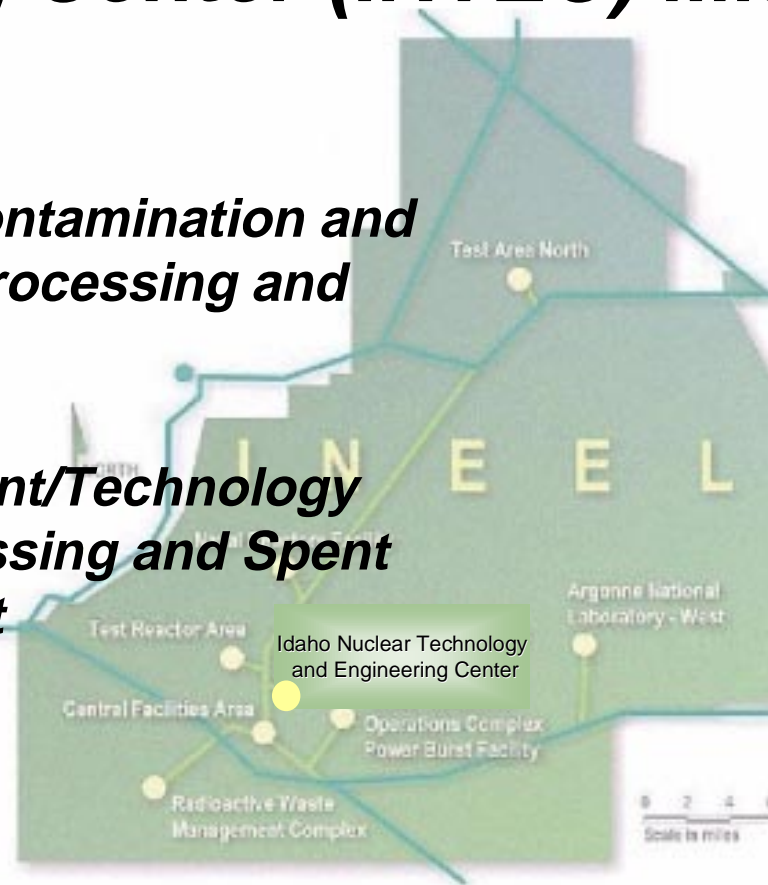


INEEL



I. Primary Idaho Nuclear Technology and Engineering Center (INTEC) Missions

- ***Phaseout/Transition/Decontamination and Decommissioning of Reprocessing and Other Facilities***
- ***Research and Development/Technology Transfer for Waste Processing and Spent Nuclear Fuel Management***

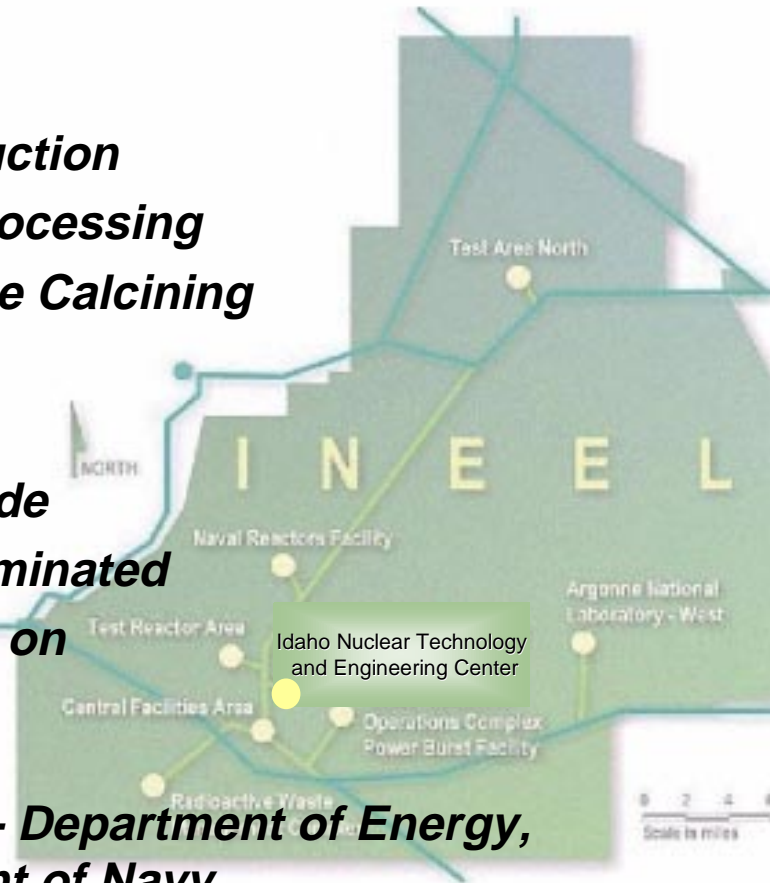


INEEL



II. INTEC History and Background

- ***1949 - Began Original Construction***
- ***1953 - Began Spent Fuel Reprocessing***
- ***1963 - Began High Level Waste Calcining***
- ***1982 - Calcliner Upgrade***
- ***1984 - Fuel Storage Upgrade***
- ***1986 - Fuel Dissolution Upgrade***
- ***1992 - Fuel Reprocessing Terminated***
- ***1993 - Court Order - Focusing on Restoration of Fuel Storage Vulnerabilities***
- ***1995 - Settlement Agreement - Department of Energy, State of Idaho, and Department of Navy***
- ***2000 - Calcliner Shutdown and in Undetermined Status***

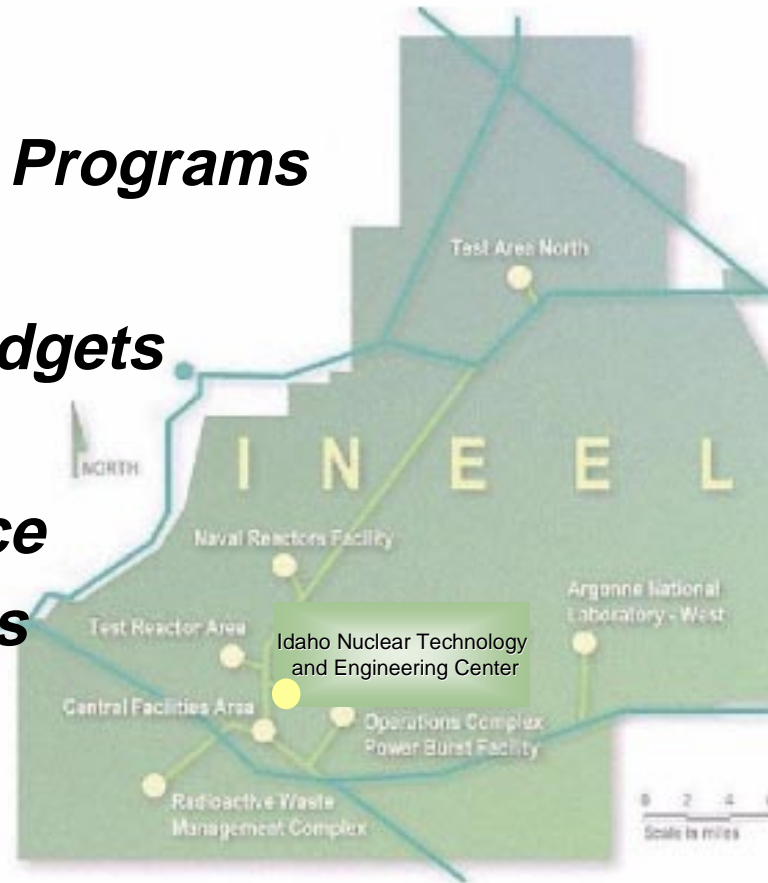


INEEL



III. INTEC Issues and Challenges

- ***Multiple Missions and Programs***
- ***Aging Facility***
- ***Static or Declining Budgets***
- ***Changing Priorities***
- ***Specialized Work Force***
- ***Work Activity Conflicts***
- ***New Processes***



INEEL



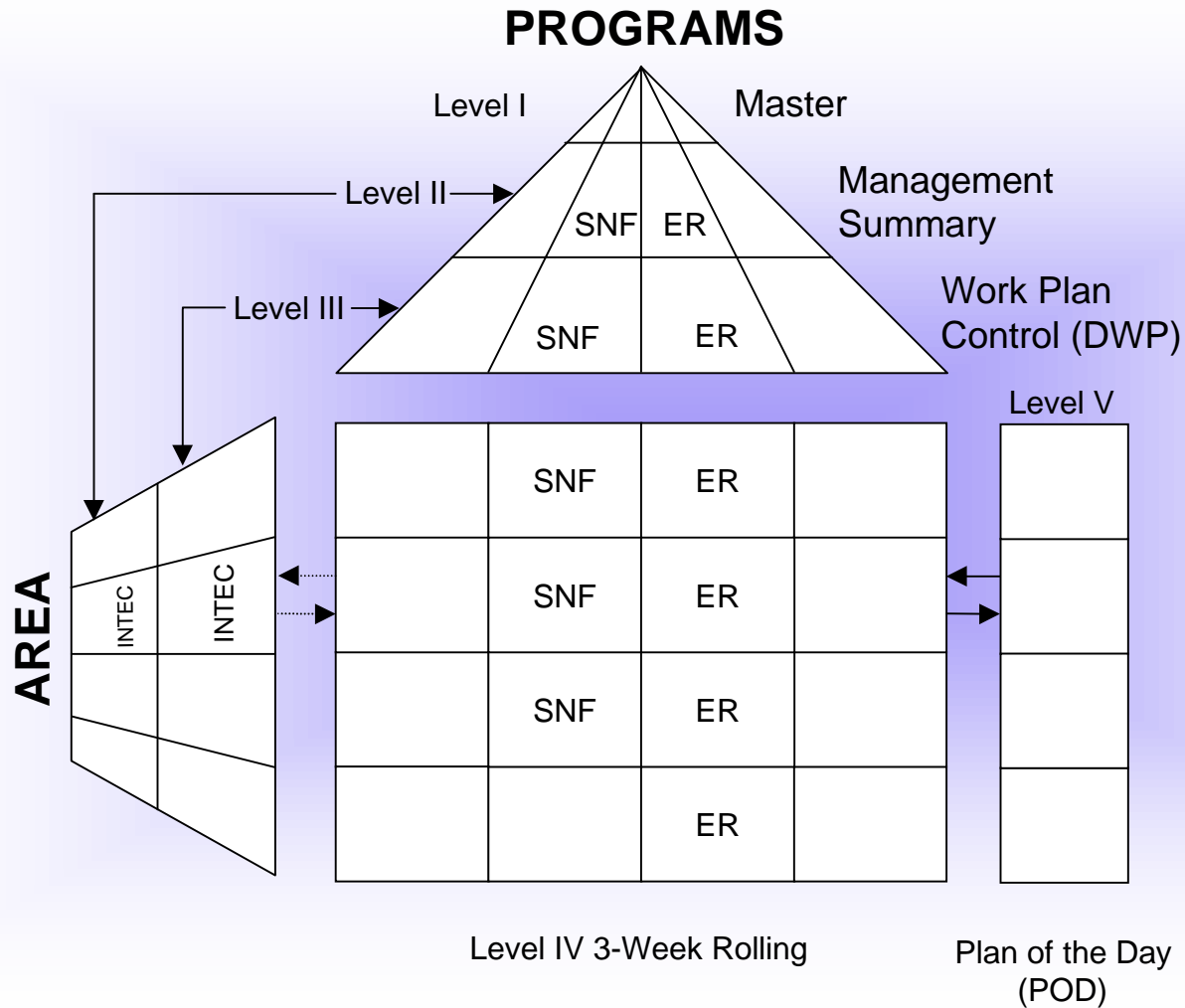
IV. Work Flowdown to Develop Work Window, Plan of Week, and Plan of Day



- ***Detailed Work Plan Provides Funding Authorization and is the Derivative Schedule for all INTEC Schedules***
 - ***INTEC Detailed Scheduling Completes for Work Windows***
 - ***Identify Program Work Interdependencies***
 - ***Refine Resource and Skill Mix Issues***
 - ***Resource Level Based on Resource Availability***
 - ***Plan of the Week is a Direct Extraction of the Work Window***
 - ***POW is Aligned to Resource Availability***
 - ***Schedule and Resource Conflicts are Mitigated***
 - ***Operations Management Participates and Concurs in the POW Work Package, Work Order, and Material Status are Checked***
 - ***Plan of the Day is an Extraction of the POW***
 - ***Work is Authorized by the Operations Managers***
 - ***Alternate Work is Approved***
 - ***Final Assessment of Resource Availability Occurs***
 - ***Only work on POD is Authorized for Performance***
 - ***Status and Progress is Maintained at POW/POD Level and Relationship to Work Window and the DWP is Maintained***

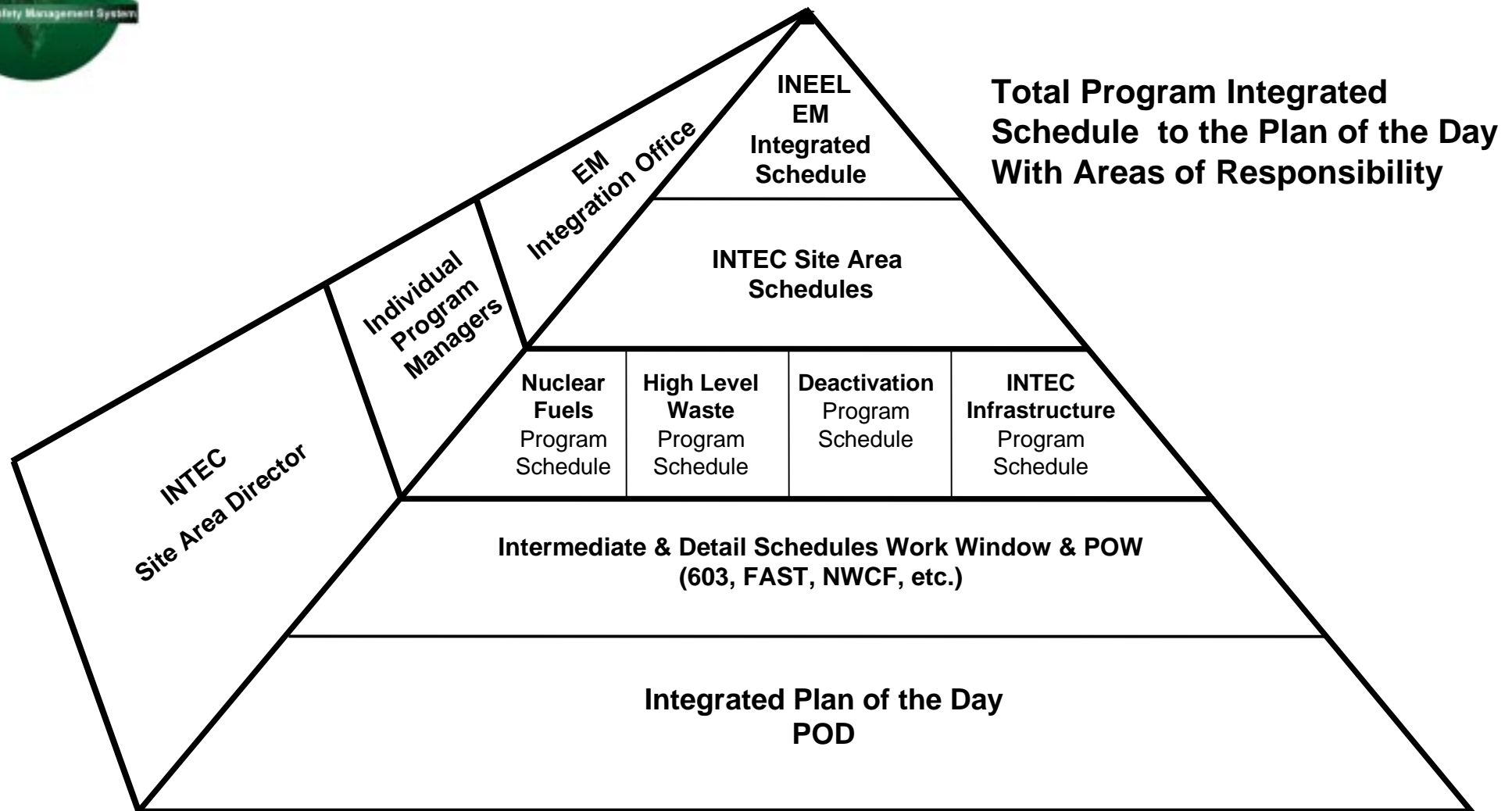


Adopted Schedule Coding





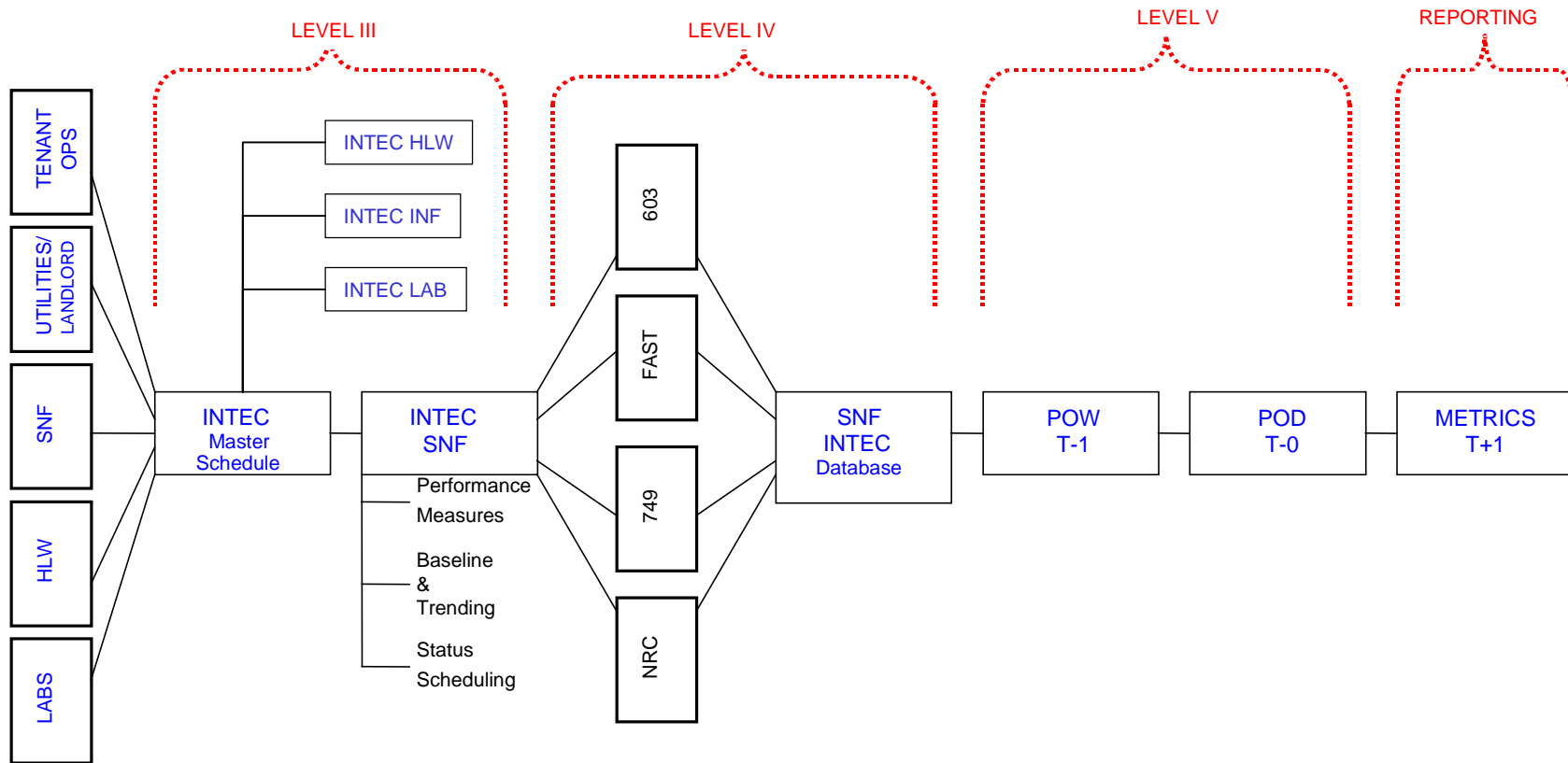
Integration of Schedules



INEEL



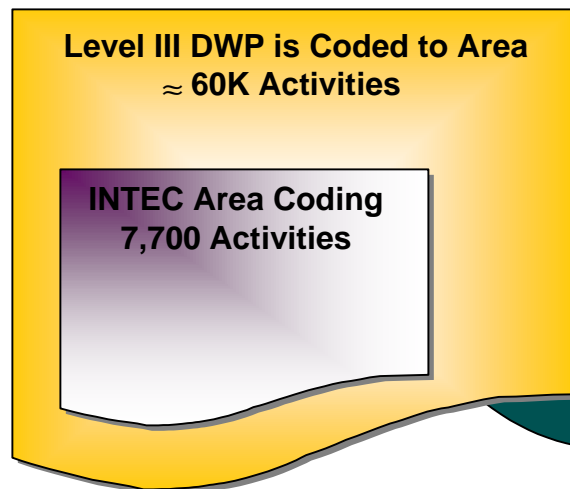
INTEC Integrated Scheduling Process





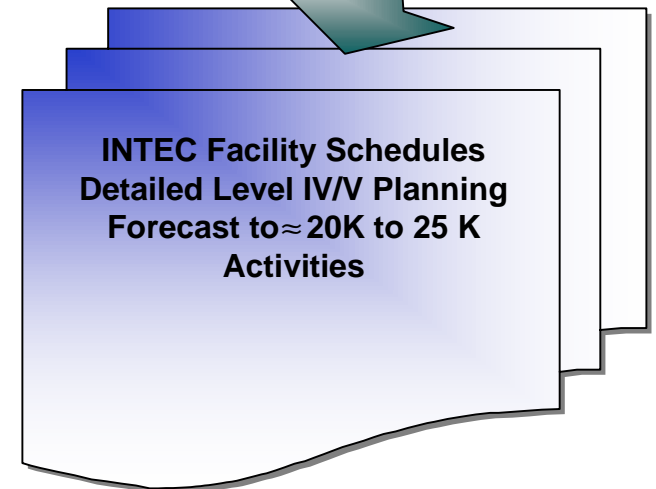
INTEC Extraction from DWP and Completion of Planning and Scheduling

INTEC is Extracted on Area Code



**INTEC Level III Schedule
By Area Coding
7,700 Activities**

**DWP Task are Granulated to
Support Detailed Planning and
Execution Control in Work
Window, POW, POD**



INEEL



V. ISM and Scheduling Process Relationship (Requirements Flowdown)

- ***Work Authorization and Scheduling Procedurally Linked and Flowdown from ISMS Requirements and Implementing Procedures***
 - ***All Work Formally Approved and Reviewed for Hazards Using a Graded Approach***
 - ***Initial Work Authorization by the Detailed Work Plan***
 - ***Plan of Day Ensures Work is Ready in all Respects***



V. ISM and Scheduling Process Relationship (Requirements Flowdown)

- ***Balancing Priorities (Guiding Principal 4)***
 - ***Resource Leveling in Planning Evolutions***
 - ***Conflicts Identified and Resolved as part of Planning***
- ***Operation Authorization Established Through POW/POD Process (Guiding Principal 7)***
- ***Work Scope Authorization Established in Process***
(Core Function 1 & 4)



VI. Benefits of Process

- ***Integrated Schedules Assist in Balancing Priorities and Resolving Conflicts***
- ***Visibility and Communication of Work Scope***
- ***Work Authorization Linked to ISMS and Business Process Requirements***



VI. Benefits of Process (Continued)

- ***Feedback in Program Performance Measurements for both Cost and Schedule (Trend and Baseline Control in Place and Reflected in INEEL Scheduling Process)***
- ***Alternate Work Flexibility***



VII. Summary

- ***Process Conforms With Relevant ISMS Core Functions & Guiding Principals***
- ***Aligns the Schedule With Business Process***
- ***ISMS Level II and EH-22 Review Confirmed Strength of Process***